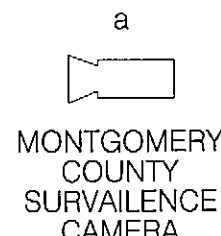
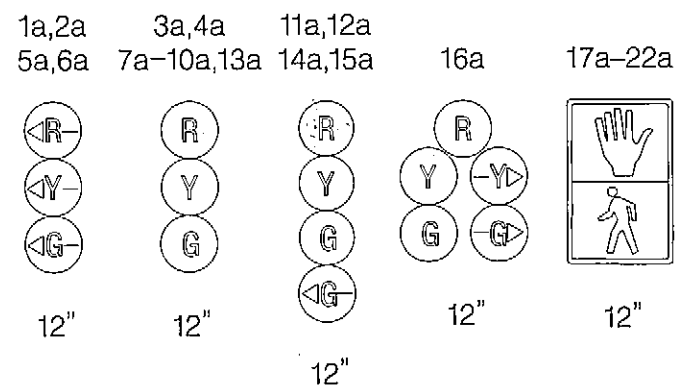


MD 28 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION

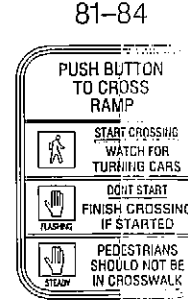
EXISTING SIGNALS TO REMAIN



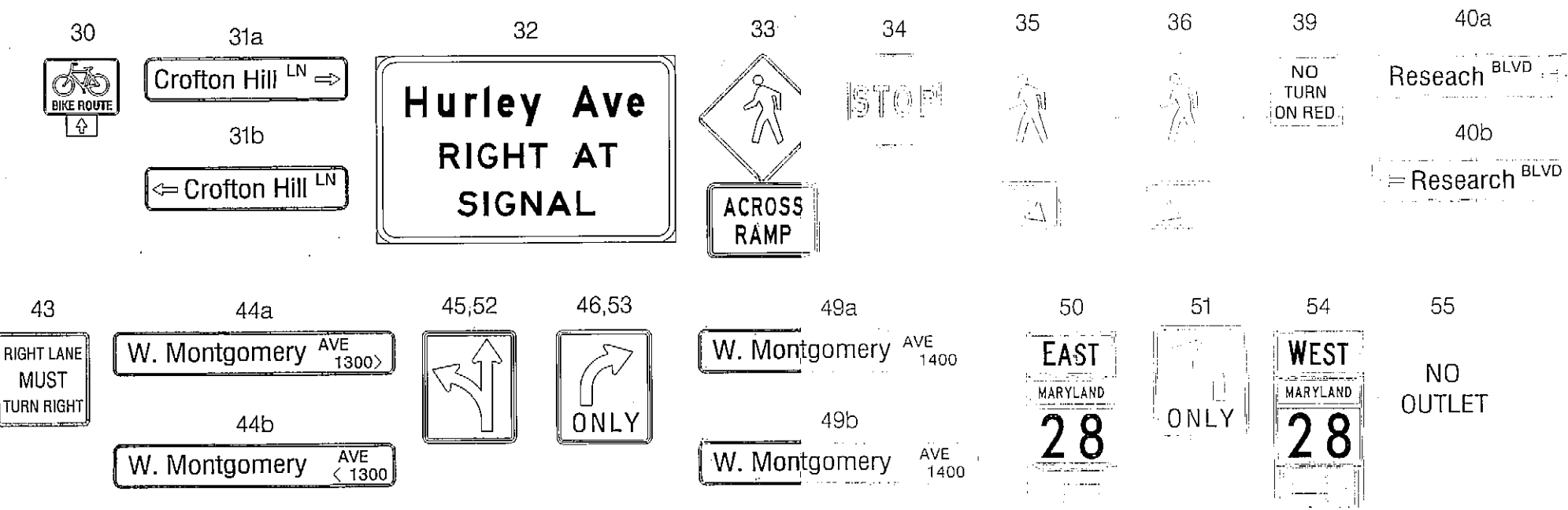
EXISTING SIGNALS TO BE REMOVED



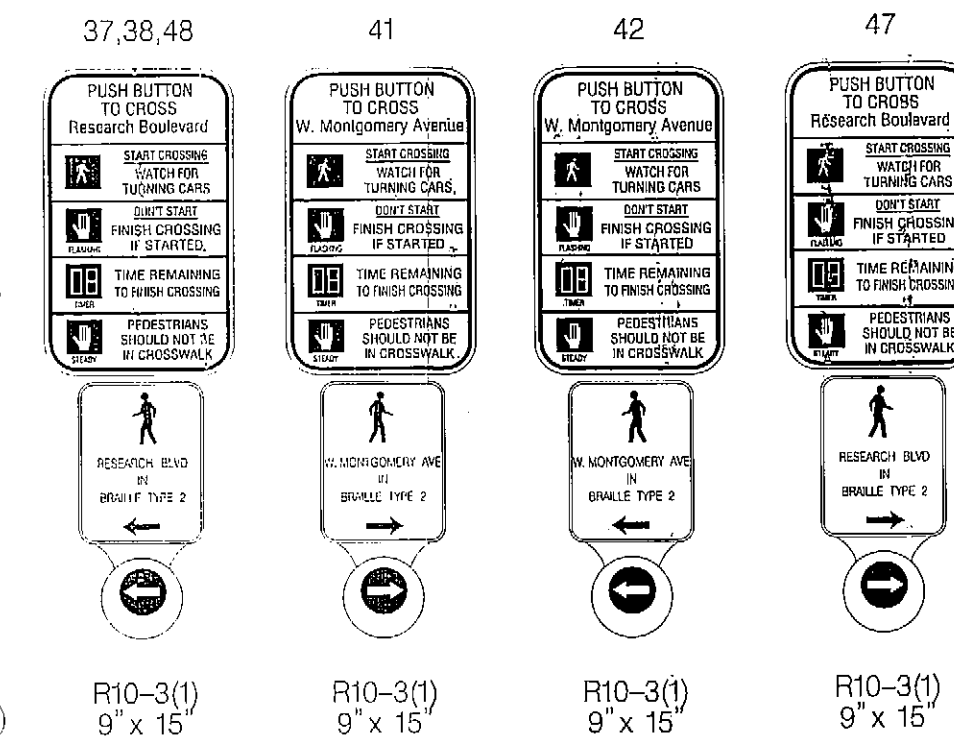
EXISTING SIGNALS TO BE REMOVED



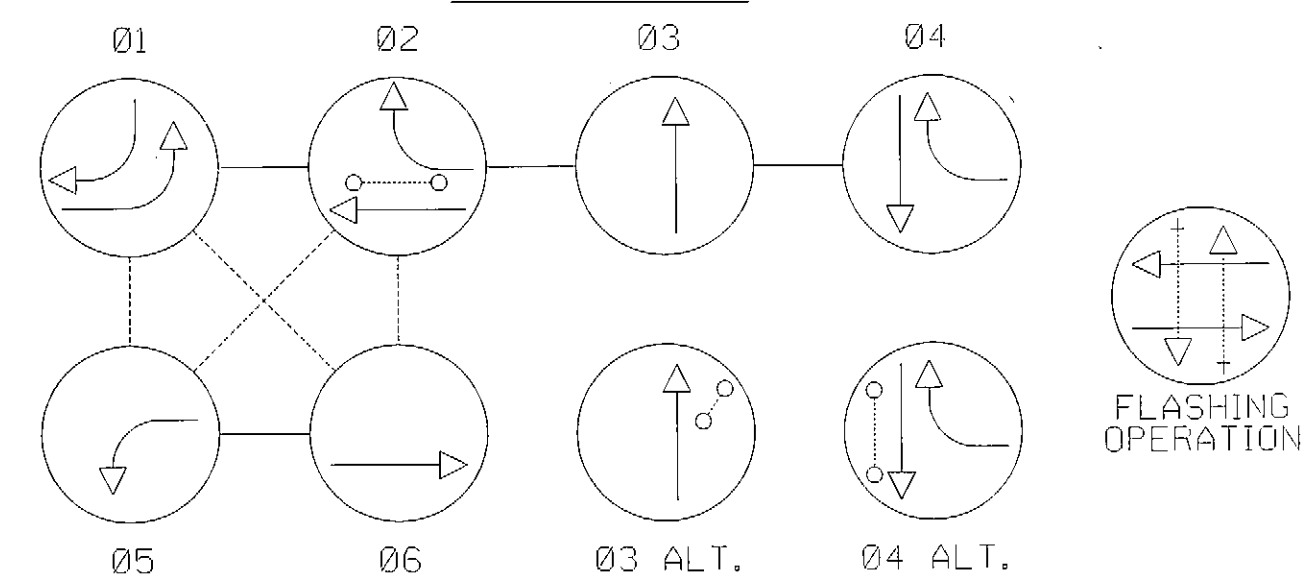
EXISTING SIGNS TO REMAIN



PROPOSED SIGNS

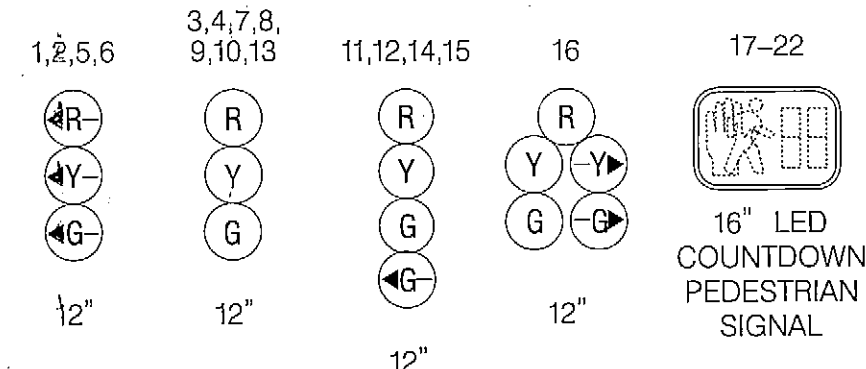


NEMA PHASING



PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

PROPOSED LED SIGNALS



MD 28 WB
(W. MONTGOMERY AVENUE)

MD 28 EB
(W. MONTGOMERY AVENUE)

CROFTON HILL LN

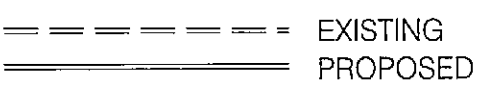
CONSTRUCTION DETAILS:

- INSTALL 10' PEDESTAL POLE WITH BREAKAWAY COUPLINGS (MD 818.16-01), MODIFIED BASE, COUNTDOWN PEDESTRIAN SIGNAL, AUDIBLE TACTILE PUSHBUTTON AND SIGN. (NOTE: 1-2 IN. PVC SCHEDULE 80 CONDUIT BEND).
- INSTALL 10' PEDESTAL POLE (CUT TO 5') WITH BREAKAWAY COUPLINGS (MD 818.16-01), MODIFIED BASE, AUDIBLE TACTILE PUSHBUTTON AND SIGN. (NOTE: 1-2 IN. PVC SCHEDULE 80 CONDUIT BEND).
- INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 3" CONDUIT BEND IN EXISTING CABINET FOUNDATION.
- INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
- INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALK.
- USE EXISTING SIGNAL POLE AND ALL ATTACHED EQUIPMENT. REMOVE PEDESTRIAN SIGNAL, PUSH BUTTON AND SIGN. INSTALL NEW COUNTDOWN PEDESTRIAN SIGNAL, AUDIBLE TACTILE PUSHBUTTON, AND SIGN.
- USE EXISTING SIGNAL POLE, SPAN WIRE, AND ALL ATTACHED EQUIPMENT. REMOVE PEDESTRIAN SIGNAL(S), PUSH BUTTON AND SIGN. INSTALL NEW COUNTDOWN PEDESTRIAN SIGNAL.
- USE EXISTING SIGNAL POLE, SPAN WIRE, AND ALL ATTACHED EQUIPMENT.
- USE EXISTING SIGNAL POLE, MAST ARM, AND ALL ATTACHED EQUIPMENT.
- USE EXISTING HANDHOLE.
- USE EXISTING CONDUIT.
- USE EXISTING CABINET AND CONTROLLER. INSTALL NEW 2-WIRE APS CENTRAL CONTROL UNIT IN EXISTING CABINET.
- USE EXISTING SPAN WIRE.
- REMOVE EXISTING PAVEMENT MARKINGS.

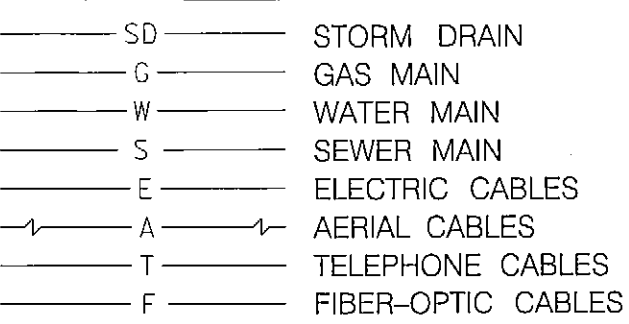
GENERAL NOTES:

- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH SHA STANDARDS.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS; HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS TO MEET CLEARANCES AS SPECIFIED IN MD 818.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- THE CONTRACTOR SHALL DELIVER APS PUSHBUTTON AND CENTRAL CONTROL UNIT TO MR. ROBERT RICKETTS AT THE MONTGOMERY COUNTY TECHNICAL CENTER AT 1283 SEVEN LOCKS RD ROCKVILLE, MD 20854 AT LEAST 3 WEEKS PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL HAVE APS MESSAGES PROGRAMMED FROM THE FACTORY AND DELIVER THE APS WAY FILES TO MR. ROBERT RICKETTS.
- THE CONTRACTOR SHALL CONTACT MR. ROBERT RICKETTS AT (301) 279-1291 TO DELIVER APS EQUIPMENT FOR TESTING.
- THE CONTRACTOR SHALL WORK ONE QUADRANT AT A TIME AND MAINTAIN PEDESTRIAN ACCESSIBILITY TO ALL OTHER QUADRANTS.
- THE CONTRACTOR SHALL NOT DEACTIVATE OR MAKE ACTIVE ANY PEDESTRIAN SIGNAL WITHOUT COORDINATING WITH MONTGOMERY COUNTY TRAFFIC ENGINEER.

GEOMETRIC LEGEND



UTILITY LEGEND



SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 28 (W. MONTGOMERY AVENUE) AT
CROFTON HILL LANE/RESEARCH BOULEVARD
ROCKVILLE, MD

SIGNALIZATION PLAN SHEET

SCALE 1" = 20'	ADVERTISED DATE 10-11-72	CONTRACT NO.
DESIGNED BY	COUNTY MONTGOMERY, MD	
DRAWN BY S. FOSTER	LOGMILE 15002820.66	
CHECKED BY W.F. FITCH	TIMS NO.	
F.A.P. NO.	TOD NO.	
TS NO. 545-I	DRAWING SG-1	OF 2
SHEET NO. 1		OF 3

APPROVALS	REVISIONS
TEAM LEADER	03/13 TMS-803 SHA NO. XY1515185
ASST. DIV. CHIEF	INSTALL APS/CP5
DIVISION CHIEF	H 10-11-02
OFFICE DIRECTOR	MODIFY TRAFFIC SIGNAL DUE TO GEOMETRIC IMPROVEMENTS. REVISE PM'S SHA NO. 1 M996M82
	RR2
	G 3-14-00
	MODIFY FOR SD MULTI-LT SHA NO. 1 BW996M82
	JJD

BAI BRUDIS & ASSOCIATES, INC.
Consulting Engineers
6240 Rummey Road, Suite 110
Columbia, Maryland 21045
Phone: 410-844-3627
www.brudis.com

PLOTTED: Thursday, March 28, 2013 AT 05:07 PM
FILE: P:\03-02 TEDD\Task 11 MD 28 Signal\Drawings\CADD\Working\MD28@Crofton\p5G-P001_MD28@Crofton.dgn